

- Fig. 8. From the right side; the shell is removed; *i*, edge of the vascular area; fig. 8a, the same as fig. 8, from the left side, on the right the allantois is cut away to show the edge of the shield more distinctly, 2 diam.; period of laying unknown, opened Aug. 22, 1852.
- Fig. 9. From above, the shell partially removed, 2 diam.; period of laying unknown, opened Aug. 21, 1852.
- Fig. 10. Twins, nat. size; the shell is removed; taken from the oviduct, July 20, opened Sept. 10, 1855.
- Fig. 11. From above, the shell mostly cut away; laid June 20, opened Aug. 2, 1855.
- Fig. 12. From above, the allantois drawn back; fig. 12a, the same as fig. 12, the embryo from behind, to show the extent of the vascular area on the lower side of the yolk; laid June 10, opened Aug. 1, 1855.
- Fig. 13. Embryo with its allantois, taken out of the shell, about 3 diam.; laid June 18, opened July 31, 1855.

PLATE XVI.

[Fig. 4 from nature, by H. J. Clark, the others by A. Sonrel.]

- Fig. 1. The allantois and amnios removed. *Chrysemys picta*, nat. size. Laid June 21, opened Oct. 23, 1855.
- Fig. 2. From above, the shell cut away, nat. size; fig. 2a, the same as fig. 2, from below, about 2 diam., the shell being removed to show the superficial extent of the vascular area; *r*¹, vena afferens; fig. 2b, the same as fig. 2, and 2a, the allantois and amnios cut away, and the embryo turned back and exposed from below; *r*¹, the point where the vena afferens enters the yolk mass. *Chrysemys picta*. Laid June 21, opened Sept. 1, 1855.
- Fig. 3. From above, 5 diam.; *r*¹, vena afferens. *Chrysemys picta*. Laid June 16, opened Aug. 1, 1855.
- Fig. 4. Seen obliquely from above and to the right, about 2 diam. Period of laying unknown, opened Sept. 17, 1852. *Ch. picta*.
- Fig. 5. From above, a little more than 3 diam. The allantois is drawn back. *Ch. picta*. Date of laying unknown, opened Aug. 2, 1855.
- Fig. 6. From above and to the right; fig. 6a, the same from the left, without the vascular area; about 4 diam. Laid June 20, opened July 17, 1855. *Nanemys guttata*.

PLATE XVII.

[All the figures of this Plate are drawn from specimens of *Chelydra serpentina*; fig. 6, by A. Sonrel, the others by H. J. Clark.]

- Fig. 1. Portion of the intestine and of the adherent yolk sac, about 5 diam. The vena afferens on the right; in

the middle the omphalo-meseraic artery. Hatched in October.

- Fig. 2. Portion of the intestine to show its opening into the yolk sac, 5 diam. On the right the afferent vein; in the middle the omphalo-meseraic artery. Taken from the oviduct, July 20, opened Sept. 19, 1855.
- Fig. 3. Portion of the vascular area, just below the surface. The large vessel on the left is an omphalo-meseraic artery, the others are omphalo-meseraic veins; the arrows indicate the course of the blood, 250 diam.; fig. 3a, large, transparent cells from fig. 3, 500 diam. Laid June 10, opened Sept. 18, 1855.
- Fig. 4. Portion of the allantois, 20 diam.; fig. 4a, portion of the same as fig. 4, 40 diam. Period of laying unknown, opened Sept. 17, 1855.
- Fig. 5. Part of the edge of the vascular area, 5 diam. Period of laying unknown, opened Aug. 6, 1852.
- Fig. 6. Strip of the vascular area, from the first part of the omphalo-meseraic artery to the vena terminalis, 5 diam. Taken from the oviduct, July 20, opened Sept. 17, 1855.
- Fig. 7. Portion of the nearly parallel omphalo-meseraic arteries, and the very crooked omphalo-meseraic veins, 5 diam. Laid June 10, opened Sept. 18, 1855.

PLATE XVIII.

[Fig. 1, 2, 3, 4, 4a, 5, 7, 9, 11, 11a, 11b, from nature, by H. J. Clark. Fig. 6, 8, 8a, 10, 10a, 10b, 10c, 10d, 10e, 10f, by A. Sonrel.]

- Fig. 1. Omphalo-meseraic vein with a very thick wall, 500 diam.; the same as Pl. 17, fig. 3, and 7. *Ch. serpentina*.
- Fig. 2. Omphalo-meseraic artery, 500 diam. Embryo just hatched.
- Fig. 3. Piece of the allantois with a bloodvessel, 500 diam. Period of laying unknown, opened Aug. 27, 1852.
- Fig. 4. Mesh of bloodvessels covered by yolk, 20 diam.; fig. 4a, a single vessel in its sheath of yolk, 500 diam. *Ch. serpentina*. Just hatched.
- Fig. 5. Posterior end of the dorsal artery and the neighboring omphalo-meseraic arteries. Magnified from fig. 7. *Nanemys guttata*. Laid July 11, opened July 22, 1852.
- Fig. 6. The fork of the vena terminalis, 12 diam.; the same as fig. 7.
- Fig. 7. From below, 5 diam.; the same as fig. 5, and 6.
- Fig. 8. From above, 3½ diam. *Nanemys guttata*. Period of laying unknown, opened Aug. 21, 1852.
- Fig. 9. From above, 2 diam. *Ozothera odorata*. Period of laying unknown, opened Aug. 23, 1852; fig. 9a, the same as fig. 9. The embryo and allantois drawn to one side.